J. Electroanal. Chem., 280 (1990) 458
Elsevier Sequoia S.A., Lausanne – Printed in The Netherlands

Author index

Ajito, K. 415
Alfred, L.C.R. 1
Anderson, A.B. 37
Angely, L. 195
Ashley, K. 429
Avraham, S. 119

Bart, J.C. 129
Battaglini, F. 443
Beck, F. 159
Becker, J.Y. 119
Bennahmias, M.J. 429
Blázquez, M. 105
Bobbert, P.A. 283
Bockris, J.O'M. 207
Borjas, R. 73
Brass, A.M. 199
Buttry, D.A. 73

Calvo, E.J. 443
Chen, S.-M. 189
Chene, J. 199
Collin, J.P. 221
Conway, B.E. 341
Cope, D.K. 27
Cortina Villar, J.C. 167
Cosnier, S. 213
Costa García, A. 167

Davidović, A. 371
Davidović, D. 371
De Levie, R. 179
De Luca, C. 145
Denuault, G. 243, 255
Deronzier, A. 213
Dominguez, M. 105
Duić, L. 371
Dunsch, L. 313

Eddowes, M.J. 297
Evans, D.H. 381, 435

Faulkner, L.R. 233
Fernández Alvarez, J.M. 167
Fleischmann, M. 243, 255
Friedrich, A. 49
Fujiwara, M. 185
Furukawa, H. 415

Garcia-Blanco, F. 105
Georgolios, N. 403
Giomini, C. 145
Greef, R. 283
Gudyanga, F.P. 267

Horányi, G. 425
Hülser, P. 159

Irish, D.E. 451
Ito, M. 415

Kainthla, R.C. 207
Kalapathy, U. 27
Kampmann, A. 91
Karabinas, P. 403
Kavan, L. 313
Kelsall, G.H. 267
Koczorowski, Z. 439
Kopilov, J. 381, 435
Kulesza, P.J. 233
Kunimatsu, K. 391

Lakkaraju, S. 429
Lin, G.H. 207
Llobet, A. 213

MacKellar, W.J. 327
Marcu, V. 91
Marczak, S. 359
Matsushita, K. 221
Myland, J.C. 1

Okamoto, M. 221
Oldham, K.B. 1
Ozeki, T. 451

Packham, N.J.C. 207
Paleska, I. 439
Peters, D.G. 129
Pettinger, B. 49
Philpott, M.R. 391
Pineda, T. 105
Pletcher, D. 243, 255
Popov, A.N. 61

Rampazzo, L. 145
Roslonek, G. 233

Saboureau, C. 195
Samant, M.G. 391
Sauvage, J.P. 221
Scholz, F. 359
Scott, C.H. 27
Seki, H. 391
Servagent, S. 227
Shepherd, G. 327
Simonet, J. 195
Simonet-Gueguen, N. 195
Simpraga, R. 341
Stone, B.M. 429
Strehblow, H.-H. 91
Su, Y.O. 189

Tabaković, I. 371
Takahashi, M. 415
Tallman, D.E. 27, 327
Taniguchi, I. 221
Tiedemann, U. 49
Timofeyeva, S.K. 61
Tuñón Blanco, P. 167
Tutty, O.R. 243

Vieil, E. 227
Vlieger, J. 283

Wawrzyńczak, W. 439
Weber, J. 313
Wrona, P.K. 359

Yevlanova, T.V. 61

J. Electroanal. Chem., 280 (1990) 458
Elsevier Sequoia S.A., Lausanne – Printed in The Netherlands

Author index

Ajito, K. 415
Alfred, L.C.R. 1
Anderson, A.B. 37
Angely, L. 195
Ashley, K. 429
Avraham, S. 119

Bart, J.C. 129
Battaglini, F. 443
Beck, F. 159
Becker, J.Y. 119
Bennahmias, M.J. 429
Blázquez, M. 105
Bobbert, P.A. 283
Bockris, J.O'M. 207
Borjas, R. 73
Brass, A.M. 199
Buttry, D.A. 73

Calvo, E.J. 443
Chen, S.-M. 189
Chene, J. 199
Collin, J.P. 221
Conway, B.E. 341
Cope, D.K. 27
Cortina Villar, J.C. 167
Cosnier, S. 213
Costa García, A. 167

Davidović, A. 371
Davidović, D. 371
De Levie, R. 179
De Luca, C. 145
Denuault, G. 243, 255
Deronzier, A. 213
Dominguez, M. 105
Duić, L. 371
Dunsch, L. 313

Eddowes, M.J. 297
Evans, D.H. 381, 435

Faulkner, L.R. 233
Fernández Alvarez, J.M. 167
Fleischmann, M. 243, 255
Friedrich, A. 49
Fujiwara, M. 185
Furukawa, H. 415

Garcia-Blanco, F. 105
Georgolios, N. 403
Giomini, C. 145
Greef, R. 283
Gudyanga, F.P. 267

Horányi, G. 425
Hülser, P. 159

Irish, D.E. 451
Ito, M. 415

Kainthla, R.C. 207
Kalapathy, U. 27
Kampmann, A. 91
Karabinas, P. 403
Kavan, L. 313
Kelsall, G.H. 267
Koczorowski, Z. 439
Kopilov, J. 381, 435
Kulesza, P.J. 233
Kunimatsu, K. 391

Lakkaraju, S. 429
Lin, G.H. 207
Llobet, A. 213

MacKellar, W.J. 327
Marcu, V. 91
Marczak, S. 359
Matsushita, K. 221
Myland, J.C. 1

Okamoto, M. 221
Oldham, K.B. 1
Ozeki, T. 451

Packham, N.J.C. 207
Paleska, I. 439
Peters, D.G. 129
Pettinger, B. 49
Philpott, M.R. 391
Pineda, T. 105
Pletcher, D. 243, 255
Popov, A.N. 61

Rampazzo, L. 145
Roslonek, G. 233

Saboureau, C. 195
Samant, M.G. 391
Sauvage, J.P. 221
Scholz, F. 359
Scott, C.H. 27
Seki, H. 391
Servagent, S. 227
Shepherd, G. 327
Simonet, J. 195
Simonet-Gueguen, N. 195
Simpraga, R. 341
Stone, B.M. 429
Strehblow, H.-H. 91
Su, Y.O. 189

Tabaković, I. 371
Takahashi, M. 415
Tallman, D.E. 27, 327
Taniguchi, I. 221
Tiedemann, U. 49
Timofeyeva, S.K. 61
Tuñón Blanco, P. 167
Tutty, O.R. 243

Vieil, E. 227
Vlieger, J. 283

Wawrzyńczak, W. 439
Weber, J. 313
Wrona, P.K. 359

Yevlanova, T.V. 61

J. Electroanal. Chem., 280 (1990) 459–464
Elsevier Sequoia S.A., Lausanne – Printed in The Netherlands

Subject index

Aluminium
Electrodeposition of polypyrrole on aluminium from non-aqueous solutions (Beck, Hülser) 159
Ammonia
Electrocatalytic reduction of nitric oxide to ammonia by water-soluble iron porphyrin (Chen, Su) 189
Nitrogen fixation. Part III. Electrochemical reduction of hydrazido ($-NNH_2$) Mo and W complexes. Selective formation of NH_3 under mild conditions (Becker, Avraham) 119
Anodic dissolution
Anodic dissolution of p- and n-type silicon. Kinetic study of the chemical mechanism (Eddowes) 297

Band electrode
Transient behavior at planar microelectrodes. Diffusion current at a band electrode by an integral equation method. Part II. (Cope et al.) 27
Benzyl alcohol
Triruthenium cluster–polypyrrole films: a remarkably stable immobilized relay at highly positive potentials. Its application to the electrocatalytic oxidation of benzyl alcohol (Cosnier et al.) 213
Biaryl open chain polyethers
Anodic electroformation of new electroactive conducting polymers from α,ω-biaryl open chain polyethers (Angely et al.) 195
Bisulfate ions
In situ FTIR study of the adsorption geometry of bisulfate accepted ions on a platinum electrode (Samant et al.) 391
Broken bonds
A simple empirical correlation between the potential of zero charge and the density of broken bonds (De Levie) 179
Bromide ion
Instability of $Cr(H_2O)_5Br^{2+}$ and $Cr(H_2O)_5I^{2+}$ complexes formed by Cr^{2+} oxidation at mercury electrodes (Marczak et al.) 359

Cadmium selenide
Production and characterization of diodes made in thin p-Se layers on top of n-CdSe (Kampmann et al.) 91
Carbon fibres
Electrochemical behaviour of hydrazine and formic acid on platinized PAN-based carbon fibres (Georgolios, Karabinas) 403
Carbon monoxide
SERS and FT-IR studies of CO adsorbed on underpotential deposited Ag/Pt electrodes (Furukawa et al.) 415
Cationic micellar system
Electrochemical reduction of *p*-nitrosodiphenylamine in a cationic micellar system (Davidović et al.) 371
Chlorine
Thermodynamics of Sn–S–Cl–H_2O systems at 298 K (Kelsall, Gudyanga) 267
Chromium bromide complex
Instability of $Cr(H_2O)_5Br^{2+}$ and $Cr(H_2O)_5I^{2+}$ complexes formed by Cr^{2+} oxidation at mercury electrodes (Marczak et al.) 359
Chromium iodide complex
Instability of $Cr(H_2O)_5Br^{2+}$ and $Cr(H_2O)_5I^{2+}$ complexes formed by Cr^{2+} oxidation at mercury electrodes (Marczak et al.) 359
Chromium ion
Instability of $Cr(H_2O)_5Br^{2+}$ and $Cr(H_2O)_5I^{2+}$ complexes formed by Cr^{2+} oxidation at mercury electrodes (Marczak et al.) 359
A microelectrode study of the mechanism of the reactions of silver(II) with manganese(II) and chromium(III) in sulphuric acid (Denuault et al.) 255
Composite films
Intercalation of metal complex cations in polyoxometallates: formation of composite

films with distinct electrocatalytic centers (Kulesza et al.) 233
Concentration–distance profile
Estimation of the concentration–distance profile within the electrochemical diffusion layer by Raman microprobe spectroscopy (Ozeki, Irish) 451
Conducting polymers
Anodic electroformation of new electroactive conducting polymers from α,ω-biaryl open chain polyethers (Angely et al.) 195
Copper
A second harmonic generation study of copper underpotential deposition on gold (Bennahmias et al.) 429
Current oscillations
Current oscillations in electrodialysis of lead ions through liquid membranes (Popov et al.) 61
Cyclam
Catalytic oxidation of hydrogen peroxide at Ni–cyclam modified electrodes and its application to the preparation of an amperometric glucose sensor (Taniguchi et al.) 221
Cyclopentadienones
Comparison of the electrochemical reduction of monomeric and dimeric cyclopentadienones (Kopilov, Evans) 381

Deuterium
Tritium production during the cathodic discharge of deuterium on palladium (Chene, Brass) 199
Diffusion current
Transient behavior at planar microelectrodes. Diffusion current at a band electrode by an integral equation method. Part II. (Cope et al.) 27
Diffusion layer
Estimation of the concentration–distance profile within the electrochemical diffusion layer by Raman microprobe spectroscopy (Ozeki, Irish) 451
Diffusion-limited currents
Diffusion-limited currents at hemitoroidal microelectrodes (Alfred et al.) 1
Dihalodecanes
Electrochemical reduction of 1,10-dihalodecanes at mercury cathodes in dimethylformamide (Bart, Peters) 129
Dimethylformamide
Electrochemical reduction of 1,10-dihalodecanes at mercury cathodes in dimethylformamide (Bart, Peters) 129
Diodes
Production and characterization of diodes made in thin p-Se layers on top of n-CdSe (Kampmann et al.) 91

EC′ processes
Development of the theory for the interpretation of steady state limiting currents at a microelectrode. EC′ processes: first and second order reactions (Denuault et al.) 243
Electrochemical fusion
Electrochemical fusion: a mechanism speculation (Lin et al.) 207
Tritium production during the cathodic discharge of deuterium on palladium (Chene, Brass) 199
Electrochemical potential
The influence of electrochemical potential on chemistry at electrode surfaces modeled by MO theory (Anderson) 37
Electrode surfaces
The influence of electrochemical potential on chemistry at electrode surfaces modeled by MO theory (Anderson) 37
Electrodialysis
Current oscillations in electrodialysis of lead ions through liquid membranes (Popov et al.) 61
Enzyme electrodes
Open circuit relaxation behavior of enzyme electrodes (Battaglini, Calvo) 443

Fast voltammetry
A wide bandwidth computer based potentiostat for fast voltammetry at microelectrodes (Tallman et al.) 327
First order reactions
Development of the theory for the interpretation of steady state limiting currents at a microelectrode. EC′ processes: first and second order reactions (Denuault et al.) 243
Formic acid
Electrochemical behaviour of hydrazine and formic acid on platinized PAN-based carbon fibres (Georgolios, Karabinas) 403

Glassy carbon
Ellipsometric and electrochemical characterisation of the nucleation of mercury on glassy carbon (Greef et al.) 283

Perfluoro anion-exchange polymeric films on glassy carbon electrodes (Dunsch et al.) 313

Glucose sensor
Catalytic oxidation of hydrogen peroxide at Ni–cyclam modified electrodes and its application to the preparation of an amperometric glucose sensor (Taniguchi et al.) 221

Gold
A second harmonic generation study of copper underpotential deposition on gold (Bennahmias et al.) 429

Haloacetanilides
Electrochemical reduction of some α-haloacetanilides (Kopilov, Evans) 435

Hemitoroidal microelectrodes
Diffusion-limited currents at hemitoroidal microelectrodes (Alfred et al.) 1

n-Hexylamine
Electrochemical behaviour of the Schiff base from pyridine-4-aldehyde and n-hexylamine (Pineda et al.) 105

Hydrazido complex
Nitrogen fixation. Part III. Electrochemical reduction of hydrazido ($-NNH_2$) Mo and W complexes. Selective formation of NH_3 under mild conditions (Becker, Avraham) 119

Hydrazine
Electrochemical behaviour of hydrazine and formic acid on platinized PAN-based carbon fibres (Georgolios, Karabinas) 403

Hydrogen peroxide
Catalytic oxidation of hydrogen peroxide at Ni–cyclam modified electrodes and its application to the preparation of an amperometric glucose sensor (Taniguchi et al.) 221

Image recording
Image recording material using an Ag^+ ion conductor (Fujiwara) 185

Immobilized relay
Triruthenium cluster–polypyrrole films: a remarkably stable immobilized relay at highly positive potentials. Its application to the electrocatalytic oxidation of benzyl alcohol (Cosnier et al.) 213

Integral equation method
Transient behavior at planar microelectrodes. Diffusion current at a band electrode by an integral equation method. Part II. (Cope et al.) 27

Interface between two immiscible electrolyte solutions
Note on the zero charge potentials at interfaces of immiscible electrolyte solutions measured by various methods (Paleska et al.) 439

Iodide ion
Instability of $Cr(H_2O)_5Br^{2+}$ and $Cr(H_2O)_5I^{2+}$ complexes formed by Cr^{2+} oxidation at mercury electrodes (Marczak et al.) 359

Iron porphyrin
Electrocatalytic reduction of nitric oxide to ammonia by water-soluble iron porphyrin (Chen, Su) 189

Lead ions
Current oscillations in electrodialysis of lead ions through liquid membranes (Popov et al.) 61

Limiting currents
Development of the theory for the interpretation of steady state limiting currents at a microelectrode. EC′ processes: first and second order reactions (Denuault et al.) 243

Liquid membranes
Current oscillations in electrodialysis of lead ions through liquid membranes (Popov et al.) 61

Low temperatures
Realization of monolayer levels of surface oxidation of nickel by anodization at low temperatures (Šimpraga, Conway) 341

Manganese ion
A microelectrode study of the mechanism of the reactions of silver(II) with manganese(II) and chromium(III) in sulphuric acid (Denuault et al.) 255

Mercaptoethanesulphonate
Adsorptive phase selective stripping voltammetric behaviour of the sodium salt of 2-mercaptoethanesulphonate (Cortina Villar et al.) 167

Mercury
Electrochemical reduction of 1,10-dihalodecanes at mercury cathodes in dimethylformamide (Bart, Peters) 129
Ellipsometric and electrochemical characterisation of the nucleation of mercury on glassy carbon (Greef et al.) 283

Metal complex cations
Intercalation of metal complex cations in polyoxometallates: formation of composite

films with distinct electrocatalytic centers (Kulesza et al.) 233
Metal electrodes
Raman spectroscopy at metal electrodes (Pettinger et al.) 49
Methionine
Radiotracer study of the potential dependence of the adsorption of L-methionine at a platinized platinum electrode (Horányi) 425
Micelles
Electrochemical reduction of *p*-nitrosodiphenylamine in a cationic micellar system (Davidović et al.) 371
Microelectrodes
Development of the theory for the interpretation of steady state limiting currents at a microelectrode. EC′ processes: first and second order reactions (Denuault et al.) 243
Diffusion-limited currents at hemitoroidal microelectrodes (Alfred et al.) 1
A microelectrode study of the mechanism of the reactions of silver(II) with manganese(II) and chromium(III) in sulphuric acid (Denuault et al.) 255
Transient behavior at planar microelectrodes. Diffusion current at a band electrode by an integral equation method. Part II. (Cope et al.) 27
A wide bandwidth computer based potentiostat for fast voltammetry at microelectrodes (Tallman et al.) 327
Molybdenum complex
Nitrogen fixation. Part III. Electrochemical reduction of hydrazido ($-NNH_2$) Mo and W complexes. Selective formation of NH_3 under mild conditions (Becker, Avraham) 119
MO theory
The influence of electrochemical potential on chemistry at electrode surfaces modeled by MO theory (Anderson) 37

Naphthalene tetracarboxylic acid dianhydride
The multi-step reversible reduction of 1,4,5,8-naphthalene tetracarboxylic acid dianhydride. An electrochemical study (De Luca et al.) 145
Nickel
Catalytic oxidation of hydrogen peroxide at Ni–cyclam modified electrodes and its application to the preparation of an amperometric glucose sensor (Taniguchi et al.) 221
Realization of monolayer levels of surface oxidation of nickel by anodization at low temperatures (Šimpraga, Conway) 341
Nitrated poly(styrene)
Solvent swelling influences the electrochemical behavior and stability of thin films of nitrated poly(styrene) (Borjas, Buttry) 73
Nitric oxide
Electrocatalytic reduction of nitric oxide to ammonia by water-soluble iron porphyrin (Chen, Su) 189
Nitrogen
Nitrogen fixation. Part III. Electrochemical reduction of hydrazido ($-NNH_2$) Mo and W complexes. Selective formation of NH_3 under mild conditions (Becker, Avraham) 119
Nitrosodiphenylamine
Electrochemical reduction of *p*-nitrosodiphenylamine in a cationic micellar system (Davidović et al.) 371
Nucleation
Ellipsometric and electrochemical characterisation of the nucleation of mercury on glassy carbon (Greef et al.) 283

Palladium
Tritium production during the cathodic discharge of deuterium on palladium (Chene, Brass) 199
Perfluoro anion-exchange polymeric films
Perfluoro anion-exchange polymeric films on glassy carbon electrodes (Dunsch et al.) 313
Planar microelectrodes
Transient behavior at planar microelectrodes. Diffusion current at a band electrode by an integral equation method. Part II. (Cope et al.) 27
Platinized PAN-based carbon fibres
Electrochemical behaviour of hydrazine and formic acid on platinized PAN-based carbon fibres (Georgolios, Karabinas) 403
Platinum
In situ FTIR study of the adsorption geometry of bisulfate accepted ions on a platinum electrode (Samant et al.) 391
Radiotracer study of the potential dependence of the adsorption of L-methionine at a platinized platinum electrode (Horányi) 425
SERS and FT-IR studies of CO adsorbed on underpotential deposited Ag/Pt electrodes (Furukawa et al.) 415
Polyethers
Anodic electroformation of new electroactive

conducting polymers from α,ω-biaryl open chain polyethers (Angely et al.) 195
Poly(3-methyl thiophene)
In-situ quartz microbalance study of the electrosynthesis of poly(3-methyl thiophene) (Servagent, Vieil) 227
Polyoxometallates
Intercalation of metal complex cations in polyoxometallates: formation of composite films with distinct electrocatalytic centers (Kulesza et al.) 233
Polypyrrole
Electrodeposition of polypyrrole on aluminium from non-aqueous solutions (Beck, Hülser) 159
Triruthenium cluster–polypyrrole films: a remarkably stable immobilized relay at highly positive potentials. Its application to the electrocatalytic oxidation of benzyl alcohol (Cosnier et al.) 213
Poly(styrene)
Solvent swelling influences the electrochemical behavior and stability of thin films of nitrated poly(styrene) (Borjas, Buttry) 73
Potential of zero charge
Note on the zero charge potentials at interfaces of immiscible electrolyte solutions measured by various methods (Paleska et al.) 439
A simple empirical correlation between the potential of zero charge and the density of broken bonds (De Levie) 179
Potentiostat
A wide bandwidth computer based potentiostat for fast voltammetry at microelectrodes (Tallman et al.) 327
Pyridine-4-aldehyde
Electrochemical behaviour of the Schiff base from pyridine-4-aldehyde and n-hexylamine (Pineda et al.) 105

Quartz microbalance
In-situ quartz microbalance study of the eletrosynthesis of poly(3-methyl thiophene) (Servagent, Vieil) 227

Radiotracer
Radiotracer study of the potential dependence of the adsorption of L-methionine at a platinized platinum electrode (Horányi) 425
Raman microprobe spectroscopy
Estimation of the concentration–distance profile within the electrochemical diffusion layer by Raman microprobe spectroscopy (Ozeki, Irish) 451
Raman spectroscopy
Raman spectroscopy at metal electrodes (Pettinger et al.) 49
Relaxation behavior
Open circuit relaxation behavior of enzyme electrodes (Battaglini, Calvo) 443

Schiff base
Electrochemical behaviour of the Schiff base from pyridine-4-aldehyde and n-hexylamine (Pineda et al.) 105
Second harmonic generation
A second harmonic generation study of copper underpotential deposition on gold (Bennahmias et al.) 429
Second order reactions
Development of the theory for the interpretation of steady state limiting currents at a microelectrode. EC′ processes: first and second order reactions (Denuault et al.) 243
Selenium
Production and characterization of diodes made in thin p-Se layers on top of n-CdSe (Kampmann et al.) 91
Silicon
Anodic dissolution of p- and n-type silicon. Kinetic study of the chemical mechanism (Eddowes) 297
Silver
SERS and FT-IR studies of CO adsorbed on underpotential deposited Ag/Pt electrodes (Furukawa et al.) 415
Silver ion
Image recording material using an Ag^+ ion conductor (Fujiwara) 185
A microelectrode study of the mechanism of the reactions of silver(II) with manganese(II) and chromium(III) in sulphuric acid (Denuault et al.) 255
Sodium salt
Adsorptive phase selective stripping voltammetric behaviour of the sodium salt of 2-mercaptoethanesulphonate (Cortina Villar et al.) 167
Solvent swelling
Solvent swelling influences the electrochemical behavior and stability of thin films of nitrated poly(styrene) (Borjas, Buttry) 73
Steady state limiting currents
Development of the theory for the interpretation of steady state limiting currents at a

microelectrode. EC′ processes: first and second order reactions (Denuault et al.) 243
Sulphur
Thermodynamics of Sn–S–Cl–H_2O systems at 298 K (Kelsall, Gudyanga) 267
Sulphuric acid
A microelectrode study of the mechanism of the reactions of silver(II) with manganese(II) and chromium(III) in sulphuric acide (Denuault et al.) 255

Thermodynamics
Thermodynamics of Sn–S–Cl–H_2O systems at 298 K (Kelsall, Gudyanga) 267
Tin
Thermodynamics of Sn–S–Cl–H_2O systems at 298 K (Kelsall, Gudyanga) 267
Triruthenium cluster
Triruthenium cluster–polypyrrole films: a remarkably stable immobilized relay at highly positive potentials. Its application to the electrocatalytic oxidation of benzyl alcohol (Cosnier et al.) 213
Tritium
Tritium production during the cathodic discharge of deuterium on palladium (Chene, Brass) 199
Tungsten complex
Nitrogen fixation. Part III. Electrochemical reduction of hydrazido (–NNH_2) Mo and W complexes. Selective formation of NH_3 under mild conditions (Becker, Avraham) 119